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Sheet 1 of 2

Complete If Known	
Application Number	Not Yet Assigned 10/52351
Filing Date	February 4, 2005
First Named Inventor	Roland Liebe
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	2002P13083WOUS

**U.S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

Examiner Signature	T. h. h.	Date Considered	1/18/06
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**INFORMATION DISCLOSURE  
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Sheet

2

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*Complete if Known*

101523512

Application Number	Not Yet Assigned
Filing Date	February 4, 2005
First Named Inventor	Roland Liebe
Group Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	2002P13083WOUS

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
R	9	F. DIDIER, R. DÉNOS, T. ARTS, "Unsteady Rotor Heat Transfer in a Transonic Turbine Stage", ASME TURBO EXPO 2002, GT-2002-30195, June 3-6, 2002, pages 319-329, Netherlands.	
	10	WITOLD EISNER, DROBNIAK STANISLAW, "The Nonstationary Behaviour of Stator Profile Boundary Layer Excited by Periodic Upstream Wakes", ASME TURBO EXPO 2002, GT-2002-30234, June 3-6, 2002, pages 673-680, Netherlands.	
	11	SANG WOO LEE, SANG BAE JUN, BYUNG-KYU PARK, JOON SIK LEE, "Effects of High Free-Stream Turbulence on the Near-Wall Flow and Heat/Mass Transfer on the Endwall of a Linear Turbine Rotor Cascade", ASME TURBO EXPO 2002, GT-2002-30187, June 3-6, 2002, pages 231-243, Netherlands.	
	12	R. LIEBE, "Validation of the Finite Vortex Model by Analyzing Unsteady Aerodynamic Experiments", Design and Nature Conference, 2002, 10 pages, Italy.	
	13	R. LIEBE, W. LIEBE, "A General Finite Vortex Model to Describe Unsteady Aerodynamics in Nature", Design and Nature Conference 2002, 10 pages, Italy.	
	14	W. HEINKE, B. MATYSCHOK, B. STOFFEL, K. HEINIG, A. FIALA, "Numerische Simulation und experimentelle Untersuchungen zum Clocking-Effekt", 7. Seminar of AG Turbo, December 7 & 8, 2000, pages 11-1 thru 11-12, Germany.	
	15	H.-P. SCHIFFER, F. HASELBACH, L. FOTTNER, "Hochbelastete ungekühlte Turbinenbeschaffelung", 7. Seminar of AG Turbo, December 7 & 8, 2000, pages 5-1 thru 5-16, Germany.	
	16	LIEBE, W, "Die Schwingende Hinterkante Als Auftriebshilfe und Zur Verminderung des Widerstands am Tragflügel", DGLR-JT99-088, 1999, pages 285-290, Germany.	
	17	DOUGLAS L. SONDAK, DANIEL J. DORNEY, "Simulation of Vortex Shedding in a Turbine Stage", ASME 98-GT-242, International Gas Turbine & Aeroengine Congress & Exhibition, June 2-5, 1998, pages 1-10, Sweden.	
	18	PETER FREYMUTH, KARL E. GUSTAFSON, ROBERT LEBEN, "Visualization and Computation of Hovering Mode (Vortex Dynamics)", 1991, pages 143-169, USA.	
	19	K. DULLENKOPF, A. SCHULZ, S. WITTIG, "Einfluß periodisch instationärer Zuströmbedingungen auf den zeitlich gemittelten Wärmeübergang an Turbinenschaufeln", 2. Statusseminar der Arbeitsgemeinschaft Hochtemperatur-Gasturbine, November 22 & 23, 1990, pages 85-97, Germany.	
	20	D.R. POLING, D.P. TELIONIS, "The Response of Airfoils to Periodic Disturbances - The Unsteady Kutta Condition", AIAA Journal, February 1986, pages 193-199, Vol. 24, No. 2, USA.	
C	21	W.J. McCROSKEY, L.W. CARR, K.W. McALISTER, "Dynamic Stall Experiments on Oscillating Airfoils", AIAA Journal January 1976, pages 57-63, Vol. 14, No. 1, USA.	
C	22	WOLFGANG LIEBE, "Der Schwanzschlag der Fische", VDI-Z. 105, October 1963, pages 1298-1302, Nr. 28, Germany.	

Examiner Signature

T. Dm

Date Considered

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